JORDAN LAKE MANAGEMENT PLAN

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Name	Mailing Address	City/State	Zip	Phone
Reesa Evans	P.O. Box 287	Friendship, WI	53934	608-339-4268
ADVISORY GROUP LIST	**JORDAN LAKE**			
Watershed Citizens				
John Andres	360A Freedom Road	Oxford, WI	53952	608-586-5242
Mike Backus	345 Freedom Road	Oxford, WI	53952	414-507-7211
Steve Bogue	1816 Pineview Dr	Verona, WI	53593	608-848-1755
Patty Devine	513 S. Walter Way	Sun Prairie, WI	53590	608-837-8937
Ed Flynn	N6753 Groth Road	Pardeeville, WI	53854	608-429-9321
Karl Frickelton	967 Sarasota Lane	Crystal Lake, IL	60014	815-861-1704
Bill Geen	3509 County G	Wisconsin Dells, WI	53965	608-586-4200
Cheryl Gerow	681 French Court	Oregon, WI	53575	608-835-8727
Mary Gissal	1903 N. 49th St	Milwaukee, WI	53208	414-774-0733
John Haralamos	1317 Highland Ave	Berwyn, IL	60402	708-749-2549
Marlene Huebner	5933 Eton Dr	Hoffman Estates, IL	60192	847-429-9293
Tom & Madalena Lawrence	330 W. Morse Ave	Bartlett, IL	60103	630-830-0911
				630-215-7472
John Lunney	411 Fur Court	Wisconsin Dells, WI	53965	608-308-5430
Glenn Newville	6100 Churchwod Circle	Glendale, WI	53219	414-421-4341
Jack Mazeika	8050 27th St	N.Riverside, IL	60540	708-447-8314
Tim Podlin	100 W. Talcott Road	Park Ridge, IL	60068	847-340-9145
Joy Rezny	1561 Promenade Lane	Wheaton, IL	60187	630-510-9008
Dan Schleiter	3173 Stratton Lane	Aurora, IL	60502	630-461-3358
State & County Members				
Scot Ironside	P.O. Box 100	Friendship, WI	53934	608-339-8087
Deb Konkel	P.O. Box 4001	Eau Claire, WI	54702	715-839-2782
Chris Murphy	P.O. Box 287	Friendship, WI	53934	608-339-4268
Buzz Sorge	P.O. Box 4001	Eau Claire, WI	54702	715-839-3794

JORDAN LAKE WATERSHED MANAGEMENT PLAN

List of Lake Advisory Group Members

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PROCEDURE FOR MODIFYING LAKE MANAGEMENT PLAN

The Jordan Lake District will maintain an agenda item of "modifying lake management plan" on its meeting notices. Although suggested changes or additions can be presented at any time, they will only be acted upon at the annual meeting. It is anticipated that the Lake Advisory Group will continue to function as a research and advisory group for the Lake District.

BASELINE INFORMATION

The Jordan Lake Surface Watershed, located Jackson Township, Adams County, Wisconsin, covers approximately 7 square miles. The ground watershed is also entirely in Jackson Township and slightly larger about 8 square miles) than the surface watershed. The ground watershed lies west and north of the lake itself. There are no major streams in either watershed. There are some private lakes/ponds in both watersheds, mostly located close to Jordan Lake.

Jordan Lake is a natural seepage lake. A seepage lake is a natural lake fed by precipitation, limited surface runoff and groundwater. The water level of a seepage lake is affected greatly by variations in the groundwater level. Jordan Lake does not have either a stream inlet or outlet. The lake has 213 surface acres and a recognized maximum depth of 82'. It is the largest and deepest natural lake in Adams County.

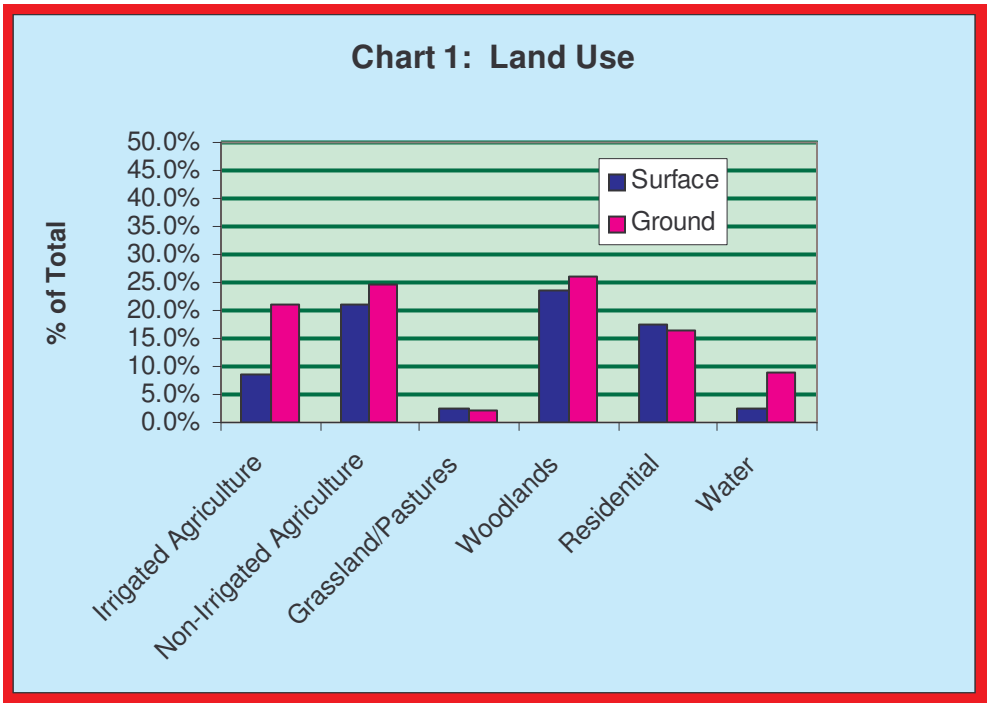
Watershed Land Use

Land Use is very important in looking at ways to maintain or improve water quality. Studies have shown that types of land use affect sedimentation rate, erosion rate and runoff rate (with included pollutants). Increased sedimentation can not only fill in shallow areas of water, but also causes excessive turbidity that harms aquatic life by destroying habitat and smothering oxygen. Increased runoff carries with it pollutants besides sediments, including pathogens, nutrients that affect algal & aquatic plant growth (nitrogen & phosphorus), pesticide residue, fertilizer chemicals, organic matter, metals, petroleum products and road salt. Increased runoff can also reduce ground water recharge and increase shore erosion. Addition of such substances not only degrade water quality and habitat, but also limit aesthetic and recreational enjoyment.

Studies also suggest that an increase in impervious surface around a waterbody of 20% may negatively impact water quality. Impervious surfaces include areas such as pavements, roofs, decks, sidewalks, compacted soil, cement patios, etc. Similarly, traditional closely-mowed lawns, as opposed to unmown lawns or native vegetation, tend to have high runoff rates and low infiltration rates. Soil types may also influence runoff amounts. Research in Indiana established the difference in average runoff

amounts, based on land use. Runoff from general residential (i.e., not necessarily highly-developed) was twice as much as runoff from forested land. Runoff in highly-developed areas may be up to fourteen times more than forested lands and twice as much as from agricultural lands. With a highly-developed residential shore, residential runoff at Jordan Lake will be one of the main negative impacts on its overall water quality in the future if steps are not taken to address this problem.

The Adams County Land & Water Conservation Department conducted a land use evaluation for both the ground and surface watersheds of Jordan Lake in 2004. The (2004) surface watershed land use was 21.2% (950 acres) non-irrigated agriculture, 8.7% (390 acres) irrigated agriculture, 26.5% (1187 acres) water (including Jordan Lake), 23.6% (1057 acres) forests, 17.4% (780 acres) residential and 2.6% (116 acres) open grassland/pasture. Currently, according to phosphorus-loading modeling done by the Adams County Land & Water Conservation Department, residential land use around the lake is contributing about 15% of the phosphorus loading, with agriculture contributing another 36%. Some phosphorus loading, such as that from woodlands or other water surfaces, is not controllable by humans; however, some of the phosphorus loading from residential and agricultural inputs is controllable. Residential practices such as not using lawn fertilizers, installing native vegetation and/or unmowed buffers and controlling runoff from impervious surfaces can reduce phosphorus input. Agricultural practices such as conservation tillage, increased residue and field buffers can reduce agricultural phosphorus input.



Non-irrigated agriculture took up 24.75% (1267 acres) of the ground watershed acreage, with an additional 21.11% (1081 acres) in irrigated agriculture. 26.2% (1341 acres) of the ground watershed is in forests, with the rest of the ground watershed being 16.6% (850 acres) residential, 9.02% (462 acres) water and 2.32% (119 acres) open grassland/pasture.

There are a few small businesses in the watershed, mostly located around the lake. These include a restaurant/bar, campsites and resorts. According to the Wisconsin State Historical Society, the only archeological site in the watersheds is a burial mound group located on the northeast side of the lake's western lobe.

Public Use and Value

In 2006, the Adams County Land & Water Conservation Department conducted a mailed citizen survey about lake issues. 70% of those responding had lakefront property on Jordan Lake. 19% of the respondents were full-time residents; 31% were year-around weekend residents; the remaining were summer or occasional residents. While only 4% of the respondents had owned their property less than 5 years, 62% had owned their land over 20 years. Most respondents owned some kind of boat, with pontoon boats dominating, then foot-paddle & fishing boats.

52% of the respondents felt the lake water quality had stayed substantially the same in the time they'd been coming to the lake, but some 42% felt the water quality had declined. Declining water quality was attributed most strongly to the invasion of exotic species (46%), recreational overuse (32%), and development (28%).

60% of the respondents felt aquatic "weed" growth had increased. In fact, aquatic plant growth was identified as the most problematic water quality issue, with human use coming a far second.

The main reasons respondents chose to use Jordan Lake were its good water quality, its distance from their primary residence and the quality of its fishing. The four most popular uses of the lake by the respondents were motorized boating, fishing, swimming and waterskiing/tubing.

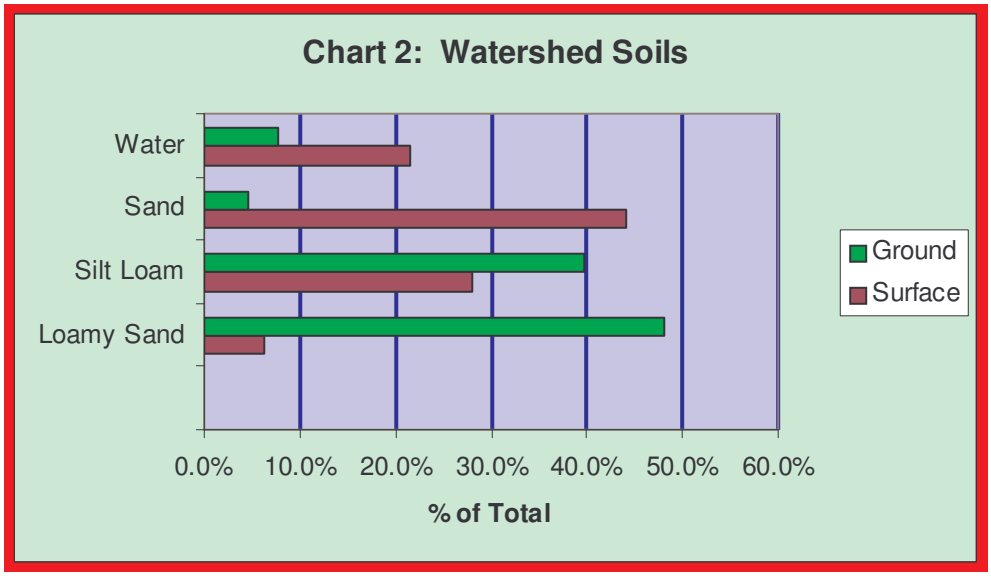
There is a county-park owned public boat ramp on the northwest side of the lake, entered off of County Road G.

Soils in the Watershed

Soils in the both watersheds range from silt loams to sands, with slopes from nearly flat to over 12%. (over 1/3 more than 6% slope). In the surface watershed, the

dominant soil type is Sand (44.2%), followed by Silt Loam (28%) and Loamy Sand (6.3%). Water covers 21.6% of the surface watershed.

Loamy Sand dominates the ground watershed (48%), followed by Silt Loam (39.8%) and Sand (4.5%). Water comprises 7.7% of the ground watershed.



Sands and Loamy Sands are generally well-drained to somewhat excessively drained, with moderate to rapid permeability in the surface layer and slow to rapid permeability in the subsurface layers. Land runoff is slow to rapid, mostly depending on slope. Available water capacity ranges from usually low, as is natural fertility organic matter content. There are wide ranges of suitability for cropping, tree-production and engineering uses. Most of these soils have erosion, blowing and drought hazards as well. Depth to groundwater is mostly over 20', although there are some areas of perched water tables. Bedrock is mostly sandstone.

Silt Loams are well-drained with moderately slow to slow permeability. Runoff in cultivated areas tends to be rapid. Available water capacity, natural fertility and organic matter content are all medium. These soils can be subject to ponding in heavy rains. These soils are generally good for cultivated crops (if erosion control is used), hay, pasture and trees, but poor for most engineering purposes. Heavy use of these soils when they are wet may result in compaction and surface runoff.

Lake Basin Shape

Jordan Lake has an irregular shore and widely-varying depths. It has a broad littoral zone around the edges of the lake, after which it drops off sharply in several places to depths of 70'+. Most of the depths under 20' are populated with aquatic plants. (see Appendix F for 1941 DNR depth map of lake)

According to a 2005 aquatic plant survey, sand was found at 80.6% of the sample sites. Also found were muck (18.2%) and rock (1.2%). In some instances, sediment type can be a limiting factor for aquatic plant growth, but this does not appear to be the case on Jordan Lake, based on the 2005 survey information.

Prior to the 1980 water rise, a vegetated sandbar separated the lake into two distinct lobes that were connected by a narrow channel about 30' deep.

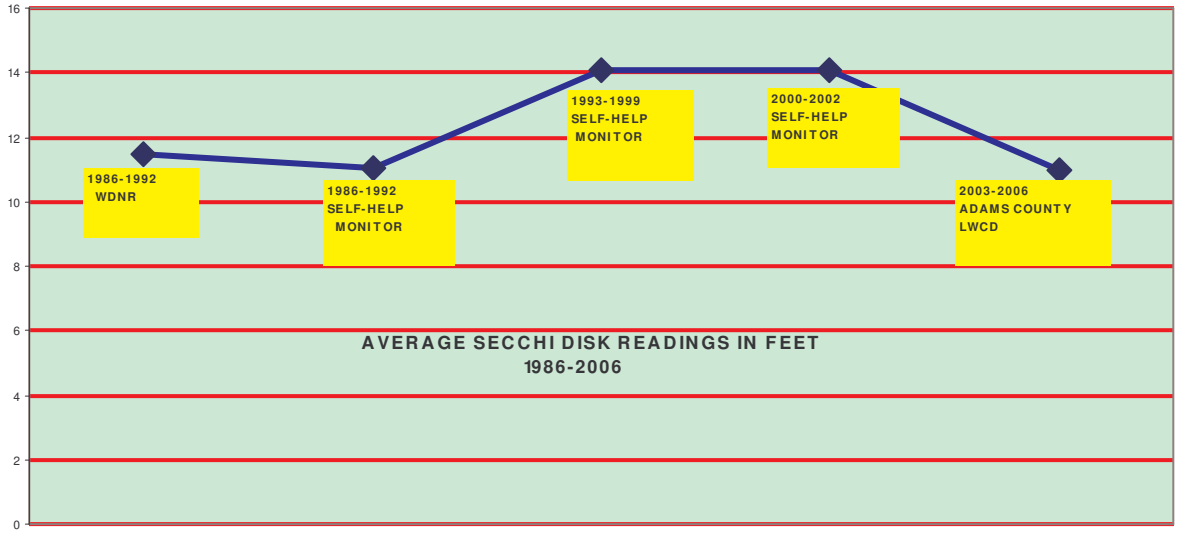
Lake Chemistry

One indicator of water quality is a lake's trophic status. Oligotrophic lakes have clear, often cold, water with low overall productivity and very desirable fisheries of large game fish. Eutrophic lakes have poor water clarity, with high production of plants and frequent algal blooms likely. Eutrophic lakes also may have fish kill histories due to oxygen depletion and often have rough fish, such as carp, that contribute to the "muddiness" of the lake water. Mesotrophic lakes are those in between oligotrophic and eutrophic lakes, with more production and accumulated organic matter than oligotrophic lakes, but only occasional algal blooms, and a good mixed fishery.

There are three lake chemistry readings that Wisconsin has traditionally used to determine a lake's trophic status. These are Secchi disk readings, which test water clarity; total phosphorus level, which indicates the amount of phosphorus available for aquatic plant and algae production; and cholorophyll a, which correlates to algal blooms. Three groups have been involved in taking these measurements: citizen volunteers through the WDNR Self-Help Lake Monitoring Program (1986-2002), the Wisconsin Department of Natural Resources (1992-1994), and the Adams County Land & Water Conservation Department (2002-2006).

Secchi Disk Readings: Secchi disk readings taken in Jordan Lake over the years have generally been good. The Adams County LWCD readings from 2003-2006 average 10.96 feet. WDNR testing between 1986 and 1992 average 11.06 feet. The Self-Help Monitoring results between 1986 and 1992 average 11.485 feet; between 1993 and 1999, the average is 14.08 feet; and from 2000-2002, the Self-Help Secchi average is 14.065 feet. All of these readings put Jordan Lake in the oligotrophic or mesotrophic class based on water clarity, with a trophic score of 42.

Chart 1: Secchi Disk Readings



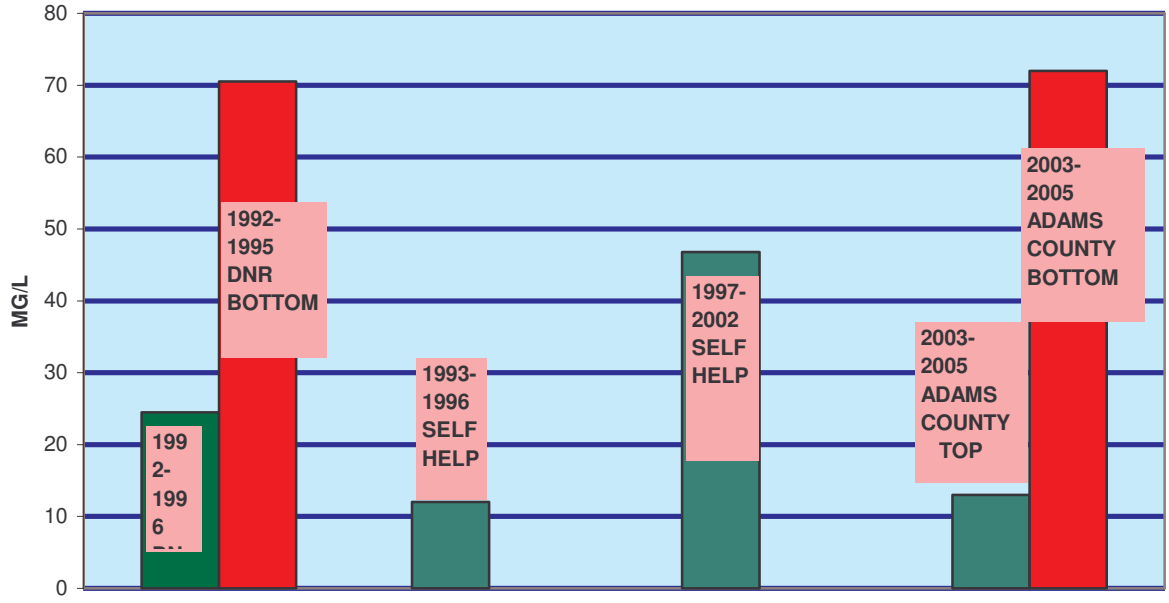
Total Phosphorus Readings: From 1992 through 2002, the WDNR tested Jordan Lake's total phosphorus level one to six times per year, taking separate surface and bottom measurements for the years 1992-1996. From 1992-1995, the WDNR average surface phosphorus reading was 34 micrograms/liter; from 1995-1998, the WDNR surface average decreased to 15 micrograms/liter. For 1999-2002, the surface phosphorus average for WDNR testing was 12 micrograms/liter.

WDNR phosphorus results from water from Jordan Lake's bottom tended to be higher than that at the surface. From 1992-1996, the average bottom phosphorus reading was 61 micrograms/liter. The 1992-1995 WDNR average phosphorus bottom reading was 70.5 mg/l, elevated for a natural lake.

The Self-Help Lake Monitoring citizens took occasional total phosphorus readings. Between 1993 and 1996, the average total phosphorus result from this program was 12.035 micrograms/liter. For 1997-2002, the average Self-Help phosphorus result was 46.8 micrograms/liter. These readings are above average for a natural lake phosphorus reading.

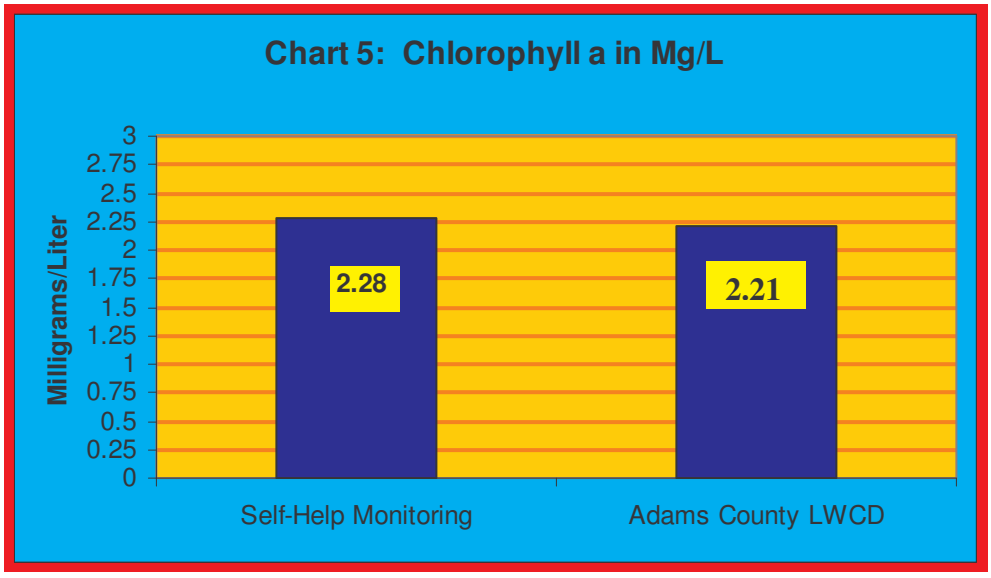
Department also takes water samples from deep in the lake and at the surface separately. Since 2002, its phosphorus results for deep water (over 40') averaged 72 micrograms/liter. Upper level phosphorus (5' and less) averaged 13 micrograms/liter. Using the upper level phosphorus, Jordan Lake scores as a "mesotrophic" lake with a score of 43.

Chart 2: Total Phosphorus in MG/L



Both 61 and 72 micrograms/liter are eutrophic levels of phosphorus, indicative of poor water quality. The WDNR and Adams County LWCD readings suggest that there is phosphorus loading in the deeper levels of Jordan Lake. Under anoxic (low or no oxygen), phosphorus could be released from the sediments with such elevated TP readings.

Chlorophyll a: Chlorophyll a is the third factor often used in evaluating water quality, since studies have shown it is correlated with algal bloom frequency. The WDNR did not take any readings of Chlorophyll a for Jordan Lake, but the Self-Help Monitoring citizens did take some, as did Adams County LWCD. Average Self-Help Monitoring results showed Chlorophyll a readings from 1993-2002 was 2.28 milligrams/liter. Adams County LWCD's average Chlorophyll a reading for 2003-2005 was 2.21 milligrams/liter. These are low levels of Chlorophyll a, indicative of an oligotrophic, fairly clear lake with good water quality. Using the Carlson Trophic Level determinations, this gives Jordan Lake a chlorophyll a trophic level of 39, in the "oligotrophic" class.



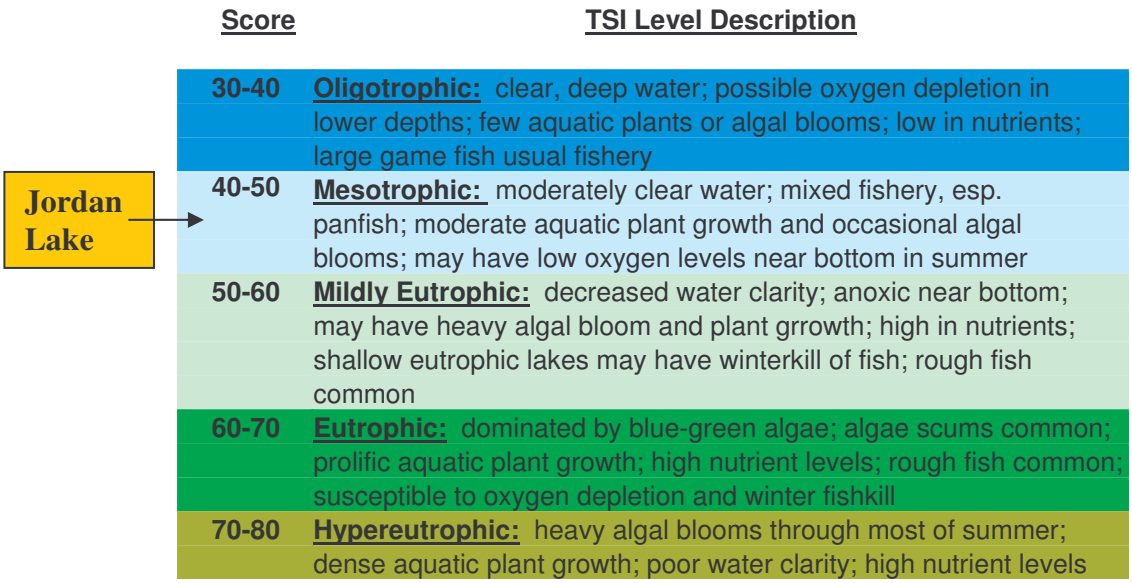
The waters of Jordan Lake tend to be around neutral, with pH readings between 6.11 to 8.12. The lake has hard water with sufficient alkalinity to protect its fishery from the effects of acid rain or other acidic deposits. Since regular testing started in 2004, all hardness testing results have been "hard" or "moderately hard" for Jordan Lake. Hard water lakes tend to have clearer water and more diverse fishery than soft water lakes. The lake, with its varying depths, maintains sufficient oxygen levels in the lake so that fish kill from low oxygen are not likely to be a problem.

Readings for sodium, chloride, magnesium, sulfate and potassium in Jordan's waters have all been low, below any caution levels.

A problem that may need to be dealt with is aging septic systems. Of the 2006 survey respondents, 66.7% had septic systems over 10 years old, with most of them being in the 500 to 1000 gallon size. 62.5% had septic sites within 100' of the shoreline.

The three "trophic" parameters suggest that Jordan Lake is maintaining good water clarity and low Chlorophyll a readings, but that phosphorus levels, especially in the lower depths of the lake, have risen substantially in the last 20 years or so. Phosphorus is especially important related to density & frequency of aquatic plants and of algal blooms. One pound of phosphorus (2.2 kilograms) in the water can produce 500 pounds of algae. Nutrient loading is the most common cause of elevated phosphorus levels, so the Jordan Lake Management Plan should investigate how phosphorus levels will be lowered.

Jordan Lake thus scores 42 TSI on Secchi Disk readings; 39 on Chlorophyll a readings; and 43 TSI on Phosphorus Levels, for an average TSI reading of 41, placing it in the "mesotrophic" class overall.



Aquatic Plants

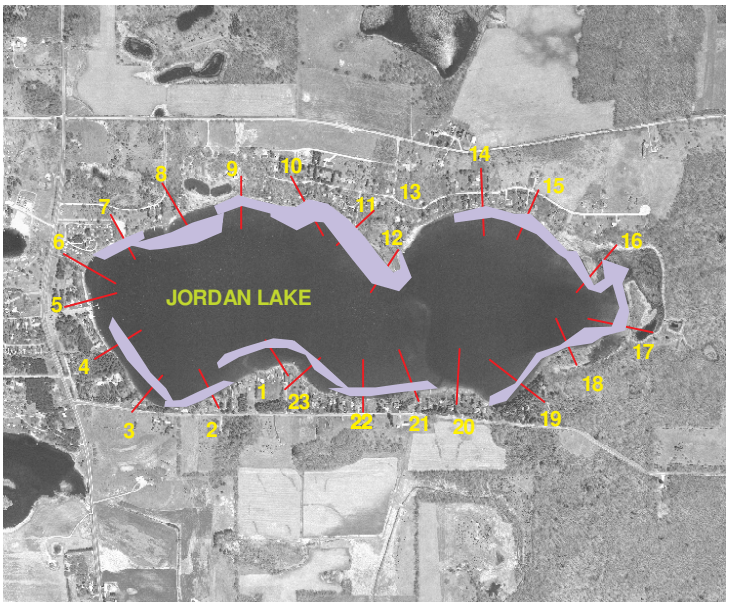
A private firm performed two field aquatic plant surveys on Jordan Lake in 2005, one in the spring and one in the summer. 19 named species were found in addition to a variety of emergent rushes and sedges. Two of the 19 species were the exotics Eurasian watermilfoil and curly-leaf pondweed. These exotics tended to be found mostly in the littoral area or around boat launches & piers.

The species with the highest frequency in both the spring and summer surveys was *Chara*, a plant-like algae. In the spring 2005 survey, *Potamogeton amplifolius* and *Potamgeton richardsonii* were the next most frequent aquatic plant, while in the summer survey, *Najas flexilis* was the only other plant with a frequency over 10%. The 2005 surveys showed decreases in both of the two exotic aquatic plant species that have entered Jordan Lake: Curly-Leaf Pondweed and Eurasian Watermilfoil.

Due to difficulties with some aquatic plant identification in the private survey, an aquatic plant survey was completed by the Adams County Land & Water Conservation Department in Summer 2006. 35 aquatic plant species were found, with 32 native and 3 exotic invasives. *Chara* spp (Muskgrass) was the most frequently-occurring "plant" in that survey as well, with the next most frequently-occurring plants being *Najas flexilis* (Bushy Pondweed), *Potamogeton pectinatus* (Sago Pondweed) and *Sagittaria latifolia* (Arrowhead or Duck Potato).

Chara spp was also the densest "plant" in Jordan Lake under this survey and the most dominant. Although the three exotics, Curly-Leaf Pondweed, Eurasian Watermilfoil and Reed Canarygrass, were found, none of them occurred at high frequency, high density or high dominance.

Floating Plants in Jordan Lake 2006



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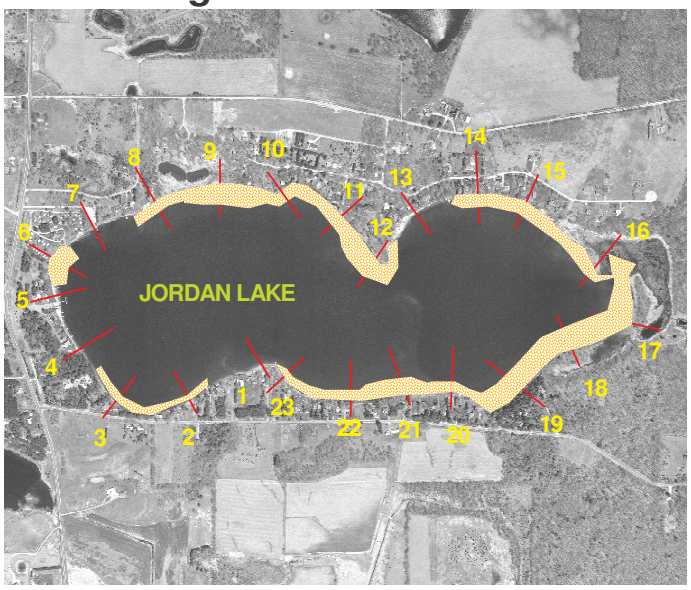
Floating-Leaf or Free-Floating Plants Found 2006

Emergent Plants Found 2006



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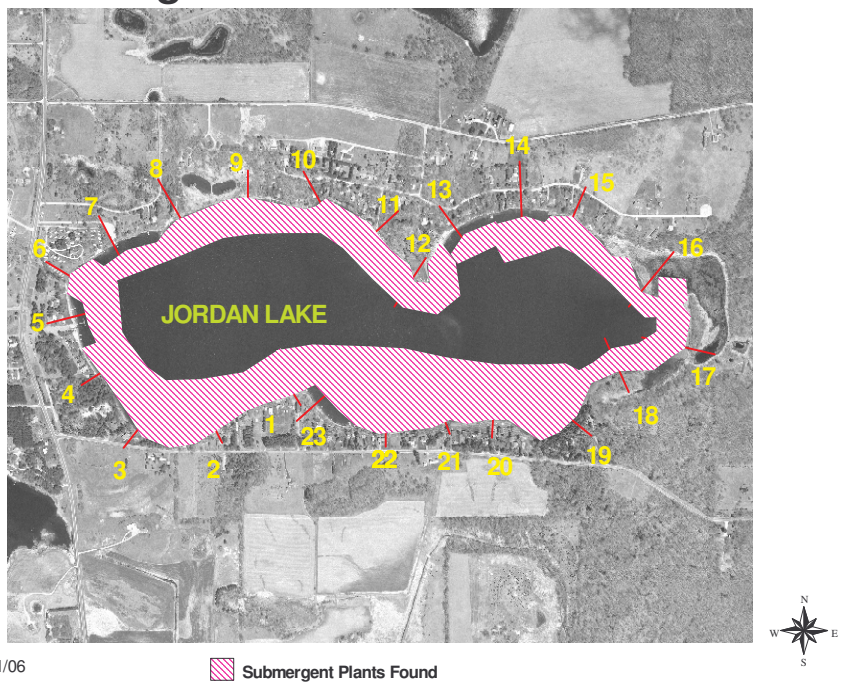
Emergent Plants Found 2006

Submergent Plants in Jordan Lake 2006



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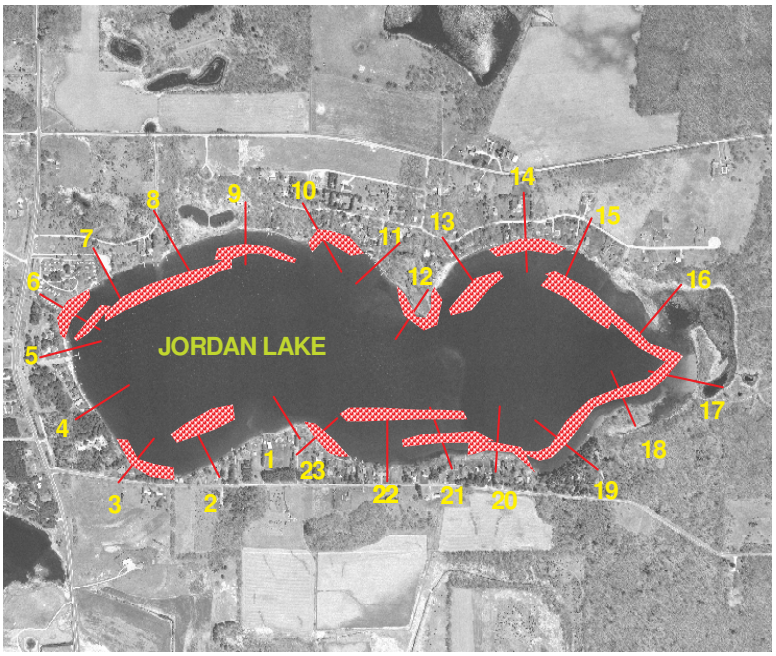
Submergent Plants Found

Historically, aquatic plant and algal growth have been addressed only by chemical treatment. Diquat was applied 1981-1982. Various brands of 2-4, D were used in 1997-2005. Limited mechanical harvesting (30 tons) on Jordan Lake did occur in 2002 by the Jordan Lake Association. The chemical treatments do appear to be reducing the amount of EWM in Jordan Lake, based on the applications for chemical input—the amount of acreage being treated in 2006 was less than the prior years. In 2002, 25 acres were treated; in 2003, it was 27.7. Starting in 2004, acreage treated has been declining: in 2004, it went down to 25.72 acres, then down to 13.96 acres in 2005 and down to **2.28 acres** in 2006.

During the 2006 survey, the exotics were found in small patches, rather than in large amounts. Considering that 32 of the 35 species found were native aquatic plants, it appears that so far, the aquatic plant community in Jordan Lake is still diverse and healthy. Care must be taken to keep it that way.

Exotic Aquatic Vegetation Found In Jordan Lake 2006



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Exotic Aquatic Vegetation Found 2006

Chemical Applications

Year	Diquat (gal)	AV70 (gal)	Aquacide (lbs)	2,4-D (lbs)	Navigate (lbs)	DMA 4 IVM (gal)	Aqua-Kleen (lbs)
1981	1.5	4					
1982	5						
1990			15				
1997				20			
1998			100	60			
1999			115				
2000			100		25		
2001			175				
2002					2005		
2003					1050	210	
2004					245.88		3763
2005					2745		
2006					385		
	6.5	4	505	80	6455.88	210	3763
	gal	gal	lbs	lbs	lbs	gal	lbs

Fishery

Jordan Lake has a diverse fishery, with largemouth bass and bluegill being historically the most abundant fish. Black crappie, bullheads, and northern pike were common, but walleyes and perch tend to be scarce. The lake does not have a history of fish kills from low oxygen.

Banded killifish (*Fundulus diaphanous*), a threatened/endangered fish species, has been found in Jordan Lake in the past.

WDNR stocking records for Jordan Lake date back to 1933 when 308 black bass were stocked. The lake was stocked annually from 1933 through 1950, mostly with bass, panfish, walleye and northern pike. Between 1953 and 1981, WDNR stocked the lake only occasionally, mostly with brown and rainbow trout. From 1981 through 2002, Jordan Lake was stocked annually by the WDNR. The bulk of this stocking was walleye (146,051), brown trout (about 9000), largemouth bass (5325) and northern pike (1800).

According to the DNR Fishery Biologist located in Adams County, an updated fish survey of Jordan Lake will occur in fall 2006.

Shoreline Use

During a 2004 survey of the shore, it appeared that most of the shoreline did not have a buffer of native vegetation going 35' landward from the shore. 60% of the shore sites had traditional lawn, with another 18% having hard structures such as decks or rock riprap. The plant survey completed in 2006 revealed that 71.73% of the Jordan Lake shoreline was covered with disturbance, with only 28.27% having native vegetation. Traditional mowed cultivated lawn had the highest coverage, covering 42.17% of the shore. These types of disturbed shorelines have been found to contribute negatively to water quality. They do not provide food or shelter for wildlife and fish and may degrade spawning beds. They tend to increase runoff and excess nutrients. The lack of plant cover tends to warm the water by disturbed areas, encouraging the growth of algae and nuisance aquatic plants. Also, cover like hard surface retaining walls deflect waves off the walls, stirring up sediments and destroying vegetation. In addition, the Jordan Lake water level rose in the mid-1980s, changing the shore parameters.

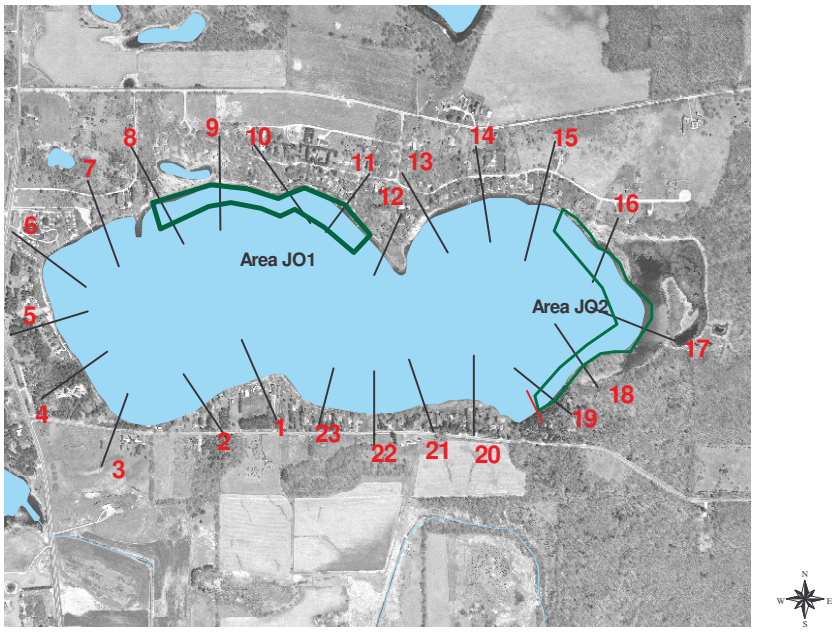
Shorelands are critical habitat necessary for the protection and enhancement of lake water quality, fisheries, wildlife and aquatic life. They provide shelter and food for wildlife and fish. They support spawning beds, cover and feeding areas for fish and invertebrates. Native vegetation filters and traps pollutants and excess nutrients, preventing them from entering the lake water, thus protecting water quality. They

provide significant aesthetic beauty and can also serve as a visual and audio buffer between the shoreland residents and lake traffic or noise. It is essential to protect existing natural shorelands and restore shoreland habitats that have been eliminated or degraded by nearshore development. Natural shorelands contain a mixture of native plants including trees, shrubs, grasses and forbs (wildflowers) that provide critical habitat for water-dependent wildlife and help filter stormwater runoff by removing excessive nutrients and sediments before they reach the lake.

Critical Habitat/Sensitive Areas

Under Wisconsin Rule 107.05(3)(i)(I), the Wisconsin DNR can evaluate a lake and declare particular areas of the lake as "sensitive or critical habitat areas." These are defined as "areas of aquatic vegetation offering critical or unique fish & wildlife habitat or offering water quality or erosion control benefits to the body of water." These areas were designated in 2006-2007 and are shown on the following map.

Critical Habitat Areas--Jordan



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Wildlife and Endangered/Threatened Resources

The only known endangered or threatened resource found in either of the Jordan Lake watersheds is the Banded Killifish. Two families of bald eagles nest around the lake, as do sandhill cranes.

Priority Watershed

From 1992-2002, many conservation practices were planned in the Jordan Lake surface watershed as part of the state's Priority Watershed Program for Neenah Creek. That plan indicated that the watershed had no inventoried animal lots. According to this plan, upland sediment delivery to the lake was estimated at 372 tons per year, with upland erosion being identified as a major source of sediment in the watershed. Sediment delivery from ponds or lakeshores was estimated to be 22 tons per year.

The plan made some recommendations: (1) reduction of runoff from lawn fertilizers, which was believed to be a problem in the lake; (2) installation of shoreline buffers; (3) purchase of an easement on the undeveloped east shore to protect northern pike spawning grounds; (4) development and implementation of a lake management/protection plan. The only one of these goals that has been accomplished is the development of this lake management plan. It does include going forward on recommendations (1), (2) and (3).

GOALS and ACTION ITEMS	WHO	WHEN
EDUCATION		
Goal A: Educate community and public about		
lake management concerns.		
1. Establish community events to encourage & educatet	Jordan Lake District	ongoing
the community about lake conservation practices.	Adams LWCD	
2. Publish educational information on Lake District Website	Jordan Lake District	ongoing
and periodic mailings to district members.		
3. Update and/or place informational signs at all public	Jordan Lake District	2008
access sites about actions citizens can take to		
improve/maintain water quality.		
4. Maintain educational exotic species signs at boat landing.	LWCD, WDNR	ongoing
	Jordan Lake District	
5. Implement education of lake users, lakefront owners &	LWCD, WDNR	ongoing
watershed community on identification & control of exotic	Jordan Lake District	
species by publication & website information.		
6. Develop & distribute an informational packet regarding lake	Adams LWCD	2008
issues, water quality and best management practices	Jordan Lake District	
to watershed citizens and businesses.		
7. Request that lakefront property owners not to use fertilizers	Jordan Lake District	ongoing
or chemicals within 200' feet of the water. Recommend that		
they perform soil tests on lawns prior to use of any		
fertilizer. If fertilizer is called for, only the recommended		
amount should be used, or a no-phosphorus fertilizer.		
8. Contact the Wisconsin Association of Lakes to get	Jordan Lake District	2007-2008
information about similar lakes, then contact those lakes to		
gain information about how they handle water quality issues.		
9. Publish information on hand-harvesting of aquatic plants	Jordan Lake District	2008-2011
in not more than the 30' wide corridor (per 100' of shore)	WDNR	
for access & viewing on lakefront properties to encourage		
landowners to limit clearing nearshore water areas.		
10. Request that lake users catch & release fish, especially .	Jordan Lake District	ongoing
predator fish	local citizens	
11. Install sign outlining lake movement pattern & times for	Jordan Lake District	2008
lake users.		
12. Conduct a lake community assessment to understand	LWCD, WDNR	2008
what lakeshore property owners value as they use &	Jordan Lake District	
manage their lakeshore property.		

13. Educate community about sensitive area using	Jordan Lake District	2008-2011
techniques by developing informational fact sheet.	LWCD, WDNR	
WATER QUALITY		
Goal A: Maintain & improve present water quality &		
prevent algal blooms.		
1. Cooperate with other lake districts and associations in	Jordan Lake District	as needed
the Town of Jackson & other to develop an ordinance	Adams LWCD	
prohibiting the sale, provision or use of phosphorus-		
based lawn fertilizers and encourge the adoption of		
this policy.		
2. Establish and identify lake water quality goals with	Jordan Lake District	2008
measurable targets for determining progress in protecting	Adams LWCD	
the lake, using the information presented in the Adams		
County Lake Classification Report due out in 2007.		
3. Recruit volunteers for ongoing monitoring of lake water	LWCD, WDNR	2007-2008
quality with participation in the WDNR Monitoring Program,	Jordan Lake District	
with monitoring results being compared to 2004-2006		
water quality data collected by Adams County LWCD.		
4. Obtain an updated bathymetric (depth) map showing the water	LWCD, WDNR	2008
depths and the low & high fluctuations.	Jordan Lake District	
5. Protect undeveloped property, sensitive areas and critical	LWCD, WDNR	2007-2008
habitat areas by investigation purchase of permanent	Jordan Lake District	
Conservation easement.		
6. Work with Adams County LWCD & Planning & Zoning to	LWCD, WDNR	2007-2010
Protect designated critical habitat areas. Planning & Zoning	Jordan Lake District	
was provided with copies of the report in January 2007.	Adams County P & Z	
7. Set up study protocol and parameters to investigate impact of	LWCD, WDNR	2008
septic systems and spring locations on lake water quality.	Jordan Lake District	
	Adams County P & Z	
Goal B: Restore natural shore conditions in riparian areas &		
incorporate stormwater runoff protection.		
1. Set up 10-20 pilot shore & runoff protection demonstration	Adams LWCD	2008-2010
sitesover the next 3 years.	Jordan Lake District	
2. Contact landowners about design & installation of bests	Adams LWCD	2008-2011
management practice for voluntary shore restoration &	Jordan Lake District	
stormwater runoff.		
3. For those chosing to participate, obtain funding to assist in	Adams LWCD	2008-2011
installation of shore restoration & management practices.	Jordan Lake District	

AQUATIC SPECIES MANAGEMENT		
Goal A: Revise aquatic plant management plan to improve		
water quality & safety.		
1. Continue to chemically spot-treat for EWM in Jordan Lake	Jordan Lake District	ongoing
after evaluating need at end of prior year. Acreage needed	WDNR	
for treatment has been declining in last few years.	Adams LWCD	
2. Other options for controlling EWM not appropriate for Jordan lake:		
(a) winter drawdown not possible since Jordan Lake is a natural		
lake; (b) mechanical harvesting at this time is not appropriate		
a due to patchy nature of current EWM distribution and		
considering disturbance of in-water habitat that can be caused by		
mechanical harvesting;		
3. Educate and encourage lake users to hand-pull invasive plants	Jordan Lake District	ongoing
by having on-site training to assist in the identification,	WDNR	
developing fact sheet about timing & methods, & posting	Adams LWCD	
information on website & around the lake.		
4. Determine the cost in money and time required to implement	Jordan Lake District	2008
propagation of milfoil weevils as possible additional control for	WDNR	
EWM population.	Gold. Sands RC & D	
	Adams LWCD	
Goal B: Control current invasive species (Eurasian Watermilfoil		
and Curly-Leaf Pondweed) & prevent infection by other exotics.		
1. Continue to evaluate ongoing plan for invasive species control &	Jordan Lake District	ongoing
& prevention.	LWCD, WDNR	
2. Inventory lake for population of native weevils that eat EWM.	Adams LWCD	completed
		2007
3. Recruit, train & schedule group of volunteers to monitor lake for invasive	Jordan Lake District	2007-08
species.	LWCD, WDNR	
4. Recruit, train & schedule group of volunteers to participate in WDNR's	Jordan Lake District	2007-08
Clean Boats, Clean Waters program.	LWCD, WDNR	
5. Conduct periodic aquatic plant survey every 3 to 5 years.	Jordan Lake District	2008
	LWCD, WDNR	
6. Evaluate monitoring at boat ramp to prevent further infection by exotic	Jordan Lake District	completed
species.		2007
7. Work with Adams County Parks & WDNR to improve boat ramp and	Jordan Lake District	2009
prevent infection through boat ramp traffic.	WDNR, Adams Parks	

8. Should instance of EWM increase, mechanical harvesting will be explored further as far as scheduling, costs and maintenance.	Jordan Lake District	as needed
FISHERY & WILDLIFE MANAGEMENT		
Goal A: Maintain fishery habitat & population in Jordan Lake.		
1. Seek funding for ongoing fish stocking and habitat increase.	Jordan Lake District	ongoing
2. Ask lakefront owners to leave fallen trees tree in lake littoral zone with proper DNR permit to increase fish habitat.	Jordan Lake District	2007 - 2011
3. Request WDNR to conduct an updated fish survey to evaluate fishery.	Jordan Lake District	2008
4. Maintain predator fish population.	Jordan Lake District	ongoing
	WDNR	
RECREATIONAL MANAGEMENT		
Goal A: Maintain recreational opportunities while maintaining peace and solitude and preserving safety of lake users.		
1. Work for buoys to be placed 200' from ordinary high water mark at public boat landing to mark no-wake area. Work with the Town of Jackson to mark critical habitat areas as no-wake areas.	Jordan Lake District Adams Parks, WDNR Town of Jackson	2008
2. Request compliance with slow no-wake ordinance and watercraft distance rules by signs, publications & community events.	Jordan Lake residents	2007 to 2011
3. Work with Parks Department to install gravel in boat ramp parking area and to post no-parking signs in some areas at ramp to allow for turn-around and safe entry & exit.	Jordan Lake District Adams Parks	2008
WATERSHED--LAND USE OUTSIDE SHORES		
Goal A: Reduce nutrients entering lake from watershed.		
1. Implement State Agricultural Performance Standards by inventorying watershed & documenting: runoff from livestock confinement operations entering surface waters; livestock direct access sites; uncontained livestock manure storage facilities; soil erosion sites; and producers not implementing nutrient management plans and irrigation water management plans. Offer County, State, Federal cost share assistance and plan/design assistance to landowners identified in inventory so best management practices are installed for compliance with the State Agricultural Performance Standards.	LWCD, NRCS WDNR Agric. Producers private organizations	2006 to 2011
2. Complete inventory of lakeshore to identify & map erosion, buffer locations, and stormwater management sites that need to be corrected to assist in reducing nutrients & other pollutants from entering the lake.	Adams County LWCD	2007-2008
3. Using SNAP Plus runoff model (or something similar), assess whole farm nutrient loading as part of inventory.	Adams County LWCD	2008-2009

OTHER MANAGEMENT ISSUES		
Goal A: Protect sensitive/critical habita areas for their habitat		
value to Jordan Lake.		
1. Develop strategy to protect critical habitat areas and incorporate	Jordan Lake District	2008-09
strategy into the lake management plan		
Goal B: Encourage diversity of wildlife around lake.		
1. Conduct survey of lakefront owners to determine if they would like to	Jordan Lake District	2008-09
encourage particular types of wildlife, including songbirds & water birds.	Adams LWCD	
2. Obtain funding & install practices to encourage the desired wildlife.	Jordan Lake District	2009-11
Goal C: Incorporate the goals of the general public into the lake		
management plan.		
1. Conduct public users survey to identify important management issues.	Jordan Lake District	2008
Surveys and dropboxes will be located at boat launches for one year,		
at resorts & campgrounds, and at local businesses.		
2. Using this information, determine if and how to address these goals in	Jordan Lake District	2009
the lake management plan.	WDNR	
	Adams LWCD	
Goal D: Research Management of Water Level of Jordan Lake		
1. Design study to assess management of lake water levels.	Jordan Lake District	2008-2009
	UWSP, WDNR	
	Adams LWCD	